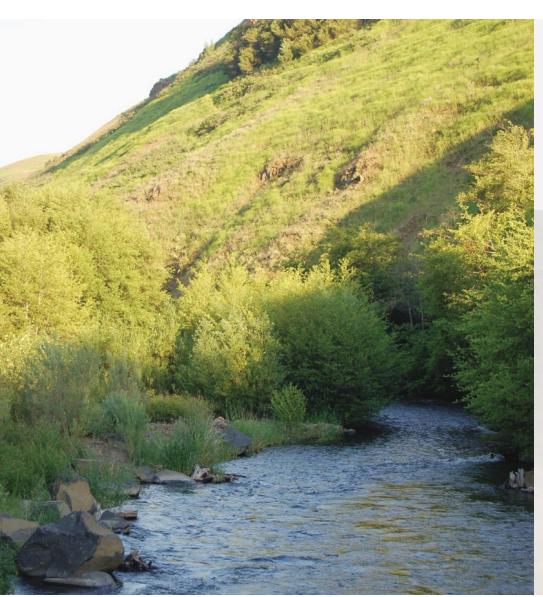
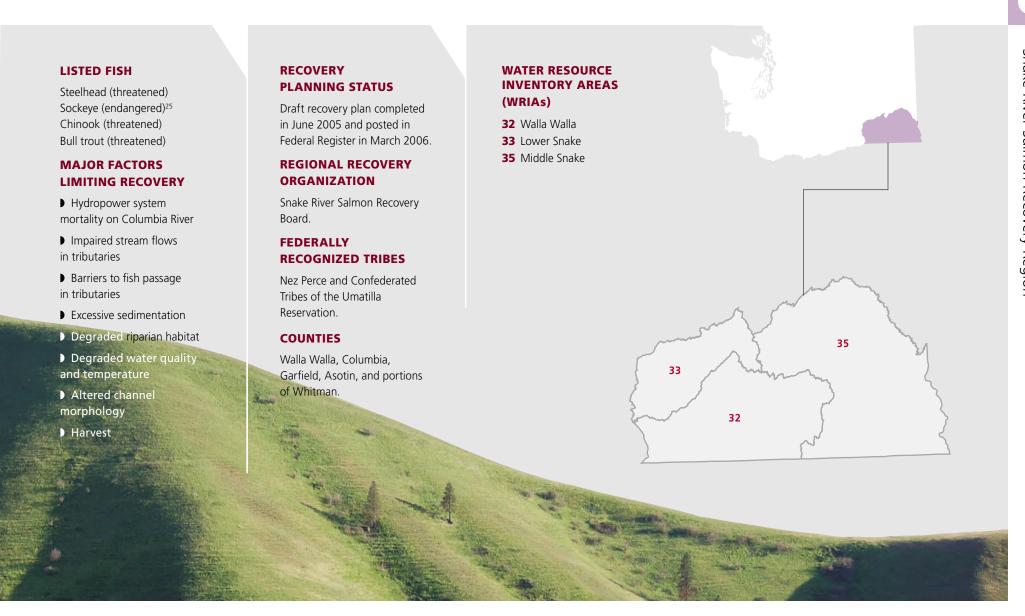
# **Snake River** Salmon Recovery Region

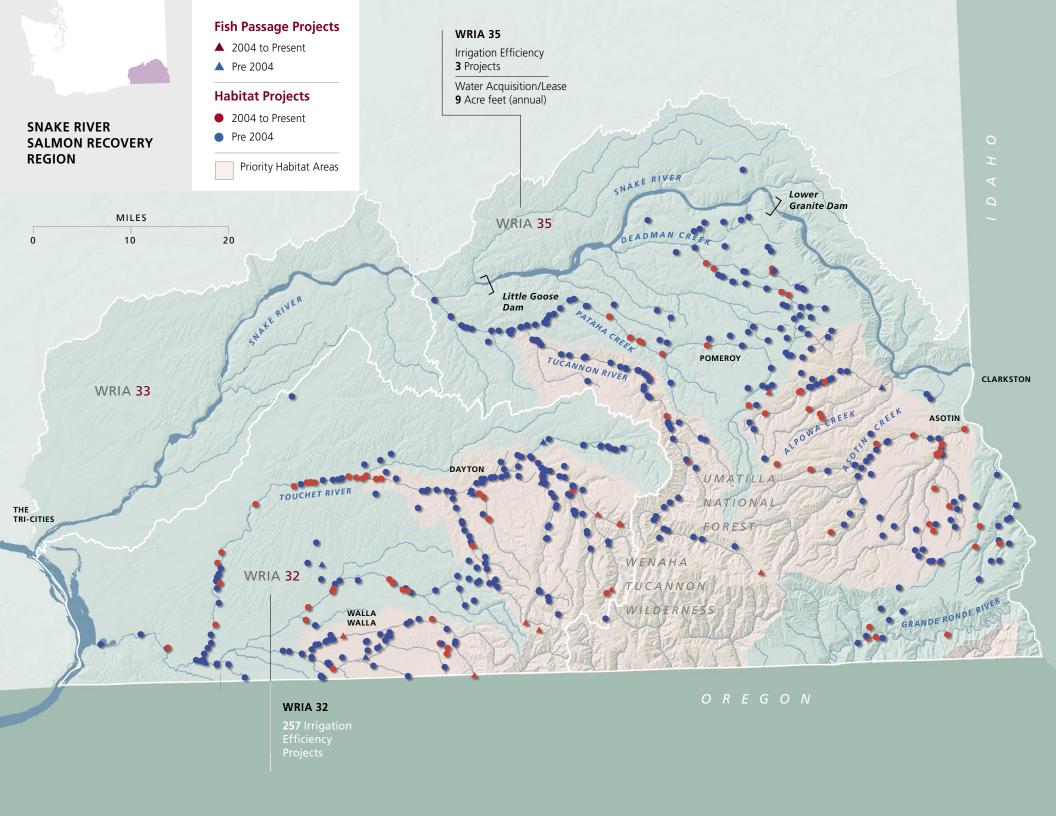


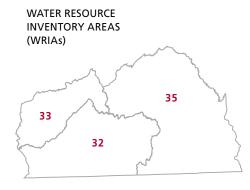
The Snake River Salmon Recovery Region is located in the southeastern corner of Washington. Rolling, semi-arid crop and pasture lands are flanked by the forested Blue Mountains to the south. The Columbia, Snake, Grande Ronde, Tucannon, and Walla Walla Rivers drain the recovery region. The Snake River is a major transportation corridor for many of the region's products, which are barged downstream to Columbia River ports.

The recovery region is sparsely populated, with residents scattered throughout the area in communities of less than 1,000 people or clustered in a few larger cities. The draft recovery plan was completed in June 2005 and posted in the Federal Register in March 2006. The plan covers portions of the middle Columbia steelhead, Snake River steelhead, fall/spring/summer Chinook salmon, and bull trout.

# Key Facts







## **Watershed Cleanup Plans**

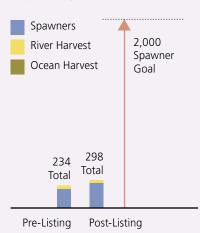
	Plans Underway	Plans
	or Completed	Needed
WRIA <b>32</b>	7	117
WRIA 33	8	15
WRIA 35	12	104

### Fish Status Listed ¬ Fall Chinook 100% 100% Sockeye Spring Chinook 100% Steelhead 100% 100% **Bull Trout**



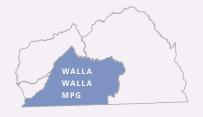
## **Snake River Steelhead** Wild Adult Abundance **Lower Snake MPG**

ANNUAL AVERAGE



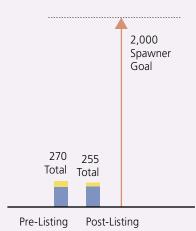
## **Steelhead** Wild Juvenile Production<sup>28</sup> **Since Listing**

200% 100% Increase 12%



## **Mid-Columbia Steelhead Wild Adult Abundance** Walla Walla MPG<sup>26</sup>

ANNUAL AVERAGE



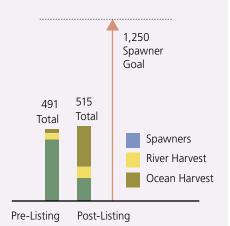
## **Steelhead Wild Juvenile Production Since Listing**

Data Not Available



## **Spring Chinook Wild Adult Abundance** Lower Snake MPG<sup>27</sup>

ANNUAL AVERAGE



## **Spring Chinook** Wild Juvenile Production<sup>28</sup> **Since Listing**

200% 100% 0%



**SNAKE RIVER** SALMON RECOVERY REGION

## MIDDLE SNAKE (TUCANNON) BASIN

35

WATER **RESOURCE INVENTORY AREA** 

# Watershed Characterization Middle Snake (Tucannon) Basin WRIA 35



The Middle Snake watershed is located in the extreme southeast corner of Washington, bordered by Oregon to the south and Idaho to the east. The basin drains approximately 2,250 square miles

(1,440,000 acres) within the state. Elevation ranges from 6,500 feet to 650 feet above sea level, while precipitation ranges from over 40 inches per year at higher elevations to 7 inches per year along the Snake River. The watershed encompasses portions of Asotin, Whitman, Garfield, and Columbia Counties. Most of Asotin County's 20,551 people live in Asotin or Clarkston and neighboring communities.

Whitman County and Columbia County portions of the basin do not have major population centers, and the city of Pomeroy is the most populated area in Garfield County with 1,517 residents. Population growth has been slow. Private land comprises 1,711 square miles (76%) of the WRIA, while the federal government manages 436 square miles (19%), and the state of Washington manages 103 square miles (~5%). Primary surface water bodies include the Snake River, Tucannon River, Asotin Creek, and Pataha Creek. Little Goose and Lower Granite Dams impound the Snake River, backing water upstream for about 40 miles to the city of Asotin. From Asotin to Hells Canyon Dam, about 100 miles, the river is free-flowing.

About 43% of the land area has been converted to crop and livestock production, with grazing occurring on about 37% of the watershed. Non-irrigated row crops, primarily wheat, are found on roughly 37% of land in the watershed. Coniferous forests cover approximately 20%, while a mixture of shrubs and trees covers 7%. Recent wildfires have burned more than 100,000 acres of the WRIA, or nearly 7% of the total area.



George Creek Instream and Riparian **Projects** 

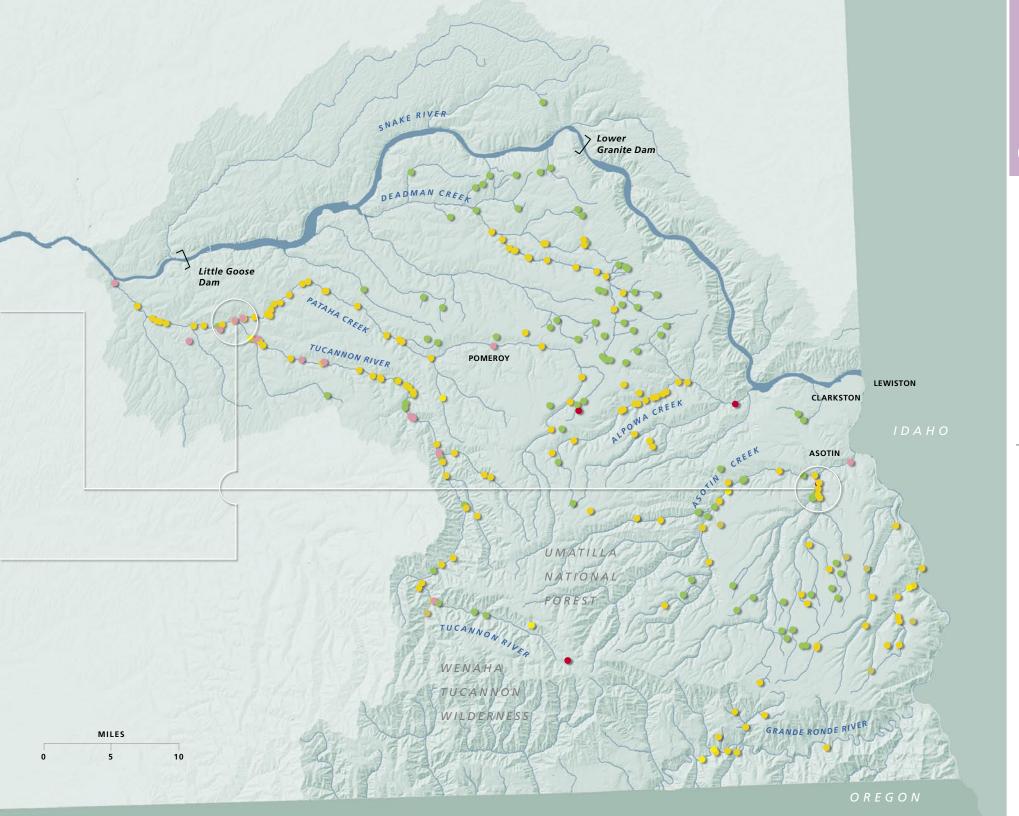


Tucannon **River Diversion Screen Project** 



#### **RESTORATION PROJECTS**

- Fish Passage
- Riparian
- Instream Habitat
- Instream Flows
- Estuary
- Upland
- Miscellaneous





SNAKE RIVER SALMON RECOVERY REGION

## MIDDLE SNAKE (TUCANNON) BASIN



WATER RESOURCE INVENTORY AREA

### MIDDLE SNAKE (TUCANNON) BASIN WRIA 35 RECOVERY QUESTIONS

## Are hydroelectric facilities operating in a "fish friendly" manner?

Indicator	Measured Results
FERC-licensed facilities	There are no FERC-licensed facilities in WRIA 35

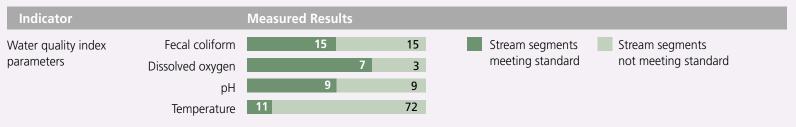
## Are streams accessible to wild salmon?

Indicator	Measured Results	
Inventory of major blockages	Complete barriers Partia	al barriers   13
Miles of anadromous waters inaccessible	Not available	

## Are listed populations abundant and productive?

Indicator	Measured Results		
Run size achieved 5 year average pre- and post listing. Wild component of Major Population Group indicated.	Snake River Steelhead (Lower Snake MPG)	Pre-listing 234 Post-listing 298	
	Mid-Columbia Steelhead (Walla Walla MPG)	Pre-listing 270 Post-listing 255	
	Spring Chinook (Lower Snake MPG)	Pre-listing Post-listing 515	1,375
Juvenile production achieved (baseline mean)	Steelhead: 20,984 Fall Chinook: 7,529 Spring Chinook: 43,433		

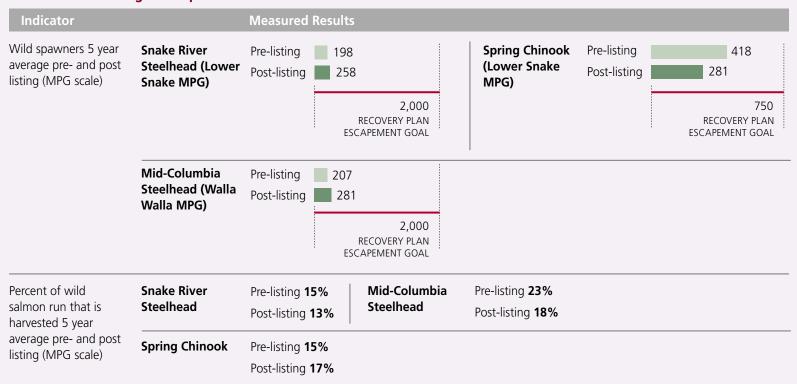
## Is water clean enough to support wild salmon?



# Do rivers and streams have flows that support wild salmon?

Indicator	Measured Results
Instream flows set	Flow recommendations under negotiations
Percent of time flow met during fish critical period <b>August 1 to September 30</b>	Not available.

## Does harvest management protect wild salmon?



# Do hatchery practices meet the needs of wild salmon?

Indicator	Measured Results	
Does a scientific evaluation of practices exist?	Recovery plan recommendations comple Hatchery Scientific Review Group pendir	
If so, what actions have been accomplished?	3	1
	Actions Implemented	Ongoing